FBII

FIRE BURGLARY INSTRUMENTS, INC.

HC-41

N9468 Rev A 11/95

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Quick Reference

TURN SYSTEM ON

Check to make sure the system is READY - Green ready light is lit
Enter your four digit user code ☐☐☐☐

The On/Off (Arm) light will light

Exit through a door designated by your installer as an exit/entry door.

TURN SYSTEM OFF

Enter through a door designated by your installer as an exit/entry door.

Enter your four digit user code ☐☐☐☐

The System On (Arm) light will go out

TURN SYSTEM ON AND STAY INSIDE

Check to make sure the system is READY - Green ready light is lit

STAY Followed by your user code ☐☐☐☐

The On/Off (arm) light and the Stay light will both light

REMEMBER: You must turn the system off if you want to open the door or leave the premises after the exit time has passed.

TURN THE SYSTEM ON: PERIMETER SENSORS INSTANT MODE AND STAY INSIDE

Check to make sure the system is READY - Green ready light is lit

INSTANT followed by

STAY followed by your user code ☐☐☐☐

The On/Off light, the Instant light and the Stay light will all be on

SMOKE DETECTOR RESET

Enter your four digit user code ☐☐☐☐

Monitoring Station Information

Account # _____

Telephone # _____

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Introduction

Congratulations on your decision to protect your home or business with the HC-41 security system. You have chosen a reliable, state of the art security system that is remarkably easy to operate. Your system has been professionally installed by your local Security Company who can explain the specifics of your system. Your system is capable of operating as two separate areas. Each area can be turned on and off separately and can have separate user codes assigned. In addition, your system is capable of integrating both traditional wired security sensors and utilizing radio linked or "wireless" security sensors. Your Installer will consult with you and decide what combination of sensors is best for your particular installation.

Keypads are the input and display devices for your security system. The following keypad models can interact with your system. Your Security Company will suggest the model most appropriate for your premises and your needs.

XK-108 — A surface mount keypad containing indicator lights for each of the 8 zones (types of protection) and 2 possible areas . The door covering the buttons is optional and can be removed. If you are using the wireless option with your system the XK-108 keypad cannot be used.

XK-708 or XK-716— Surface mount keypads containing indicator lights for each of the 8 zones (types of protection) and 2 possible areas .

XK-7LC—Keypad with a plastic case and a two line English read-out LCD (liquid crystal display). Status messages for the zones, points and areas are displayed in simple English.

ZR-440 - Wireless Keypad with no status display. Can only be used on systems that are using the wireless option. Not all options are available through the wireless keypad, it should be used with either an XK-708 or an XL7LC.

The HC-41 is listed by Underwriters Laboratories for Household Fire and Burglary applications.

Throughout this manual the following conventions are used to display *the keystrokes required to perform the functions.*

BYPASS	- Button labeled BYPASS
INSTANT	- Button labeled INSTANT
STAY	- Button labeled STAY
CODE	- Button labeled CODE
☐☐☐☐	- Four digit user code

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System Reference

POINT ID	ZONE	DESCRIPTION	AREA	POINT ID	ZONE	DESCRIPTION	AREA
1	__	_____	__	9	__	_____	__
2	__	_____	__	10	__	_____	__
3	__	_____	__	11	__	_____	__
4	__	_____	__	12	__	_____	__
5	__	_____	__	13	__	_____	__
6	__	_____	__	14	__	_____	__
7	__	_____	__	15	__	_____	__
8	__	_____	__	16	__	_____	__

Entry time _____ Door _____ Exit time _____

Entry time _____ Door _____

Area 1 _____

Area 2 _____

The following **SEND HELP ALERTS** are programmed into my system. **Both Buttons must be pressed at the same time to activate the alert.**

The XK-708 and XK-7LC use the buttons described on the left.

The XK-108 has buttons below the number keys as described on the right.

BUTTONS		DESCRIPTION	BUTTONS
#	*	_____	Left
7	9	_____	Center
1	3	_____	Right

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USER ID	ASSIGNED TO	AUTHORIZED FOR
1	_____	Area 1 ☐ Area 2 ☐ Both ☐
	(MASTER USER programs all users 1-16)	
2	_____	Area 1 ☐ Area 2 ☐ Both ☐
	(MASTER USER programs users 2-15)	
3	_____	Area 1 ☐ Area 2 ☐ Both ☐
4	_____	Area 1 ☐ Area 2 ☐ Both ☐
5	_____	Area 1 ☐ Area 2 ☐ Both ☐
6	_____	Area 1 ☐ Area 2 ☐ Both ☐
7	_____	Area 1 ☐ Area 2 ☐ Both ☐
8	_____	Area 1 ☐ Area 2 ☐ Both ☐
9	_____	Area 1 ☐ Area 2 ☐ Both ☐
10	_____	Area 1 ☐ Area 2 ☐ Both ☐
11	_____	Area 1 ☐ Area 2 ☐ Both ☐
12	Pager Alert - Yes ☐ No ☐	
	If No _____	Area 1 ☐ Area 2 ☐ Both ☐
13	Door Strike - Yes ☐ No ☐	
	If No _____	Area 1 ☐ Area 2 ☐ Both ☐
14	Only Turns System On - Yes ☐ No ☐	
	If No _____	Area 1 ☐ Area 2 ☐ Both ☐
15	Ambush/Duress Code - Yes ☐ No ☐	
	If No _____	Area 1 ☐ Area 2 ☐ Both ☐

*Master User can Add, Change, or Erase other user codes.

Two Area System - Yes ☐ No ☐

In a two area system, the keypad area indicator will show which area is currently being displayed. To switch the display to the other area you press _____.

(Either * or #3, depending on how your installer configured the system.)

The keypad commands you enter will only affect the area currently displayed. If you are not authorized for the other area you can display the status of that area but you will not be able to enter commands.

Please keep your manual in a convenient location so you can refer to it if needed.

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System Operation
Hardwired Keypad

TURNING THE SYSTEM ON

You can turn the Burglar portion of your security system on and off. Before you turn the system on it must be ready. If you have a protected door open, or someone is moving by a motion detector the system will not show ready. In a 2 area system your area indicator will show you which area is active

The system is ready if the ready light is on or if the display shows:

SYSTEM READY AREA #

Area # will display area 1 or 2 or the area description if programmed.

TURN THE SYSTEM ON AND LEAVE

Enter your four digit user code ☐☐☐☐

The System On (Arm) light will go on or the display will show:

ON: AWAY .... 60 SEC.. AREA #

Exit through a door designated by your installer as an exit/entry door. You must leave within the period of time known as the exit time. Check the reference sheet for the time that has been set for your system.

NOT READY

If the system is **not** ready to be armed the READY light will be **off** and the Zone lights will show which zone or zones are not ready. The zone lights indicate the following conditions or the display will show as below:

Fast Blink	Alarm
Slow Blink/Low Intensity	Bypass
Slow Pulse	Trouble
Solid On	Not Ready

Example: If the **Ready light** is **not** lit and the **zone one** light **is solid on.** An alarm sensor on zone one is not normal. This might mean that a window is open or someone is walking through a motion sensor. Check all sensors on zone one and resolve the problem. When all sensors are normal the Ready light will come on and the zone light will go out.

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Display shows:

SYSTEM NOT READY AREA #

NOT RDY ZN 01 FRONT DOOR

TO TURN THE SYSTEM ON - NOT READY

Determine which zone or zones is not ready, resolve the problem and turn the system on normally. If the problem cannot be resolved you may **bypass** the zone that is not ready. Bypassing should only be done if the problem on the zone cannot be resolved OR if you intentionally wish to leave the zone off. Example: you wish to keep the window open for ventilation. **Zones that are bypassed are not protected when the system is on.** See Bypass for the correct procedure.

TURN SYSTEM ON AND STAY INSIDE

To turn the perimeter portion of your burglar alarm on and move around freely inside is the **STAY** mode.

Check to make sure the system is READY; when ready press:

STAY Followed by your user code ☐☐☐☐

If successful the On/Off (arm) light will be lit and the Stay light will also be lit or the display shows:

ON: STAY AREA #

REMEMBER: You must turn the system off if you want to open the door or leave the premises after the exit time has passed.

TURN THE SYSTEM ON: PERIMETER SENSORS INSTANT MODE AND STAY INSIDE

In **INSTANT STAY** *mode the perimeter portion of your burglar alarm system* is on and the time delays are eliminated from your normal entry/exit door(s). All interior protection is off so you are free to move around inside.

Check to make sure the system is READY, when ready press:

INSTANT followed by

STAY followed by your user code ☐☐☐☐

If successful the On/Off light, the Instant light and the Stay light will all be on or the display shows:

ON: STAY INSTANT AREA #

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TURN THE SYSTEM ON: ALL SECURITY INSTANT

In **INSTANT** mode all sensors are active and will respond immediately if violated.

Check to make sure the system is READY, when ready press:

INSTANT followed by your user code ☐☐☐☐

If successful the On/Off light, the Instant light and the INS light will all be on or the display shows:

```
ON: INSTANT
AREA #
```

BYPASS

Your system can be set up to bypass by Zones (groups of points) or by individual points of protection. Bypass excludes a zone or point of protection from the security system until it is unbypasssed. Bypassing can only be done while the system is turned off.

My system is set up for bypass by Zone - Yes ☐ No ☐

My system is set up for bypass by Point - Yes ☐ No ☐

BYPASS BY ZONE

Press the Bypass Button followed by your user code and then the Zone # (1-8) to be bypassed. Subsequent zones can be bypassed by pressing the bypass button followed by the zone # within 10 seconds.

BYPASS ☐☐☐☐ **ZONE**

NOTE: Bypassed zones are not protected when the system is turned on. After the bypass command has been accepted the keypad will sound one long beep and the zone or zones bypassed will slowly blink or the display shows:

```
BYPASS          ZN 01
FRONT DOOR
```

NOTE: Temporary users (i.e. baby sitters, housekeepers, etc.) should not be shown the Bypass procedure.

BYPASS BY POINT

Press the Bypass Button followed by your user code and then the 2 digit point # (01-24) to be bypassed. Subsequent points can be bypassed by pressing the bypass button followed by the point # within a 10 second period.

BYPASS ☐☐☐☐ **POINT**

NOTE: Bypassed points are not protected when the system is turned on. After the bypass command has been accepted the keypad will sound one

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long beep and the point or points bypassed will slowly blink or the display shows:

BYPASS	ZN 01
FRONT DOOR	

NOTE: Temporary users (i.e. baby sitters, housekeepers, etc.) should not be shown the Bypass procedure.

My system is set up to automatically unbypass any bypassed zones or points when I turn the system off.

Yes ☐ **No** ☐

If No, you will have to manually unbypass the zone(s) or point(s) you have bypassed by following the unbypass procedure.

UNBYPASS

Unbypass returns a bypassed zone or point to normal operation.

Unbypass is a repeat of the bypass function.

BYPASS ☐☐☐☐ **ZONE** or **POINT**

After unbypassing the zone display will show the state of the zones.

TURN THE SYSTEM OFF

When you turn off the system, you are turning off only the burglar portion of your system, any smoke or heat detectors and panic buttons will remain on. You must enter through a designated entry door and turn off the system within the time allowed. You can have different amounts of time for different entry points. See your system reference sheet for the times established for your system.

Enter your four digit user code ☐☐☐☐

If no alarms have taken place, the On/Off light (labeled arm) will go off or the display shows:

SYSTEM READY
AREA #

If alarms occurred when the system was on , or if a trouble condition exists they will display on the zone indicator lights as follows:

Fast Blink	Alarm
Slow Blink/Low Intensity	Bypass
Slow Pulse	Trouble
Solid On	Not Ready

or the display shows:

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ALARM	ZN 01
FRONT DOOR	

Burglary Alarms will sound a steady sound through the keypad(s) and fire alarms will generate a pulsing sound.

Important: If an intrusion has taken place while you were away, do not enter until the location has been checked. Call for help from a neighbor's house and wait for the police.

After you have turned the system off with your user code the message on display keypads will show:

ALARM MEM	ZN 01
FRONT DOOR	

To clear the display of the alarm or trouble conditions and silence the audible alert :

Enter your four digit user code ☐☐☐☐ again.

USER CODES

ADD OR CHANGE A USER CODE

Users can be entered or modified directly through the keypad. Your system can have up to 6 different User Codes. User #1 is the **Master User** and is the only one allowed to add, or delete other users.

Press the Code button followed by the four digit master user code then the user # and the new four digit user code. The keypad will beep after each digit is pressed.

	Master User Code	User ID	New User Code
CODE	☐☐☐☐	US	☐☐☐☐

There is a record sheet provided in the front of this manual to help you plan and record your users. On this sheet your installer will indicate any special purpose user codes you may have designated. You may have chosen to dedicate a user code to send an emergency signal in the case of Ambush or Duress. You may also have chosen to reserve one user code that is only allowed to turn the system on, this code will not be able to turn the system off. In addition door strike and pager alert are special options. It is not necessary to record the user code that you assign to a user. If a user forgets their user code follow the change user code procedure for their user ID. This provides you with a higher level of security. No one can accidentally discover the list and use someone else's user code.

DELETE A USER CODE

To delete user #3, press the code button followed by the four digit master user code, then the user # then * to delete.

	Master User Code	User ID	* to delete
CODE	☐☐☐☐	3	*

NOTE: User #1, the master user, cannot be deleted but it can be changed using the ADD OR CHANGE USER PROCEDURE.

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TURN SYSTEM ON ONLY (Maid Code)

If you choose to have a code that cannot turn the system off, but can turn the system on, have your installer program this feature. If programmed, user ID 14 will have System On capability only and you can issue this code to a temporary user so they can secure the premises when they leave.

KEYPAD SEND HELP CONDITIONS

Your system can be programmed for 3 separate Send Help Alerts which would send an emergency signal to your central station. See System Reference sheet to see which have been programmed for your system.

Duress

Your system can be programmed to send an emergency signal to the Central Station if you are forced to enter the premises. If you choose to include this feature, User ID 15 is dedicated to this function and must only be used under a duress circumstance.

Quick On - (Quick Arming) Yes ☐ No ☐

If programmed by your installer, QUICK ON, or Quick Arming allows you to turn the system on to the away mode without user code. **NOTE:** Turning your system Off always requires a valid User Code.

1 To turn both areas on, in a two area system # 0 # 1

To Quick On in the Stay inside mode Press

STAY Followed # 1

Quick Forced On - Yes ☐ No ☐

If programmed by your installer Quick Forced On, allows you to turn the burglar portion of your alarm system on to the away mode bypassing all zones that are not ready.

2 To Quick force on both areas in a two area system # 0 # 2

NOTE: A valid user code is still required to turn the system off.

NOTE: This feature is disabled on UL installations.

Quick On/Quick Off both areas - Yes ☐ No ☐

If programmed by your installer Quick On/Quick Off for both areas, allows you to turn the burglar portion of your alarm system on to the away mode or off by pressing # 0 followed by your user code.

0 ☐☐☐☐

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Zone/Point Directory Display (English Keypad only)

Display the list of points/zones and their descriptions.

4

The points will scroll through the display.

Turn Chime On/Off

Chime is an optional feature that causes the keypad to chime when selected doors are opened when the burglary protection is off or disarmed.

Only your installer can program a zone for the chime feature, but once programmed you can turn chime on or off to meet your daily needs. To turn chime on or off.

5 6

Display Time (English Keypad Only)

To display the system time

Press # 5 1

Display Auto On Time (English Keypad Only)

If your system has been configured to turn itself on automatically at a specific time each day you can display that time.

5 2

Set System Time

System time is necessary if you are using the automatic on feature or if you are sending periodic test signals to your monitoring station.

To set the time on a indicator light keypad follow this sequence

5 3 ☐☐☐☐ [Hour] [Minute] [Month] [Day] [Year]

Where the hour is a two digit entry 00-23 [Military time] Midnight is 00 Noon is 12 and 3pm is 15 (Add 12 to each hour after noon).

Minute is (00-59)

Month is (01-12)

Day is (01-31)

Year is (00-99)

The sounder will beep after each entry.

English Language Keypads will prompt you for each entry.

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Set Auto On Time

To set the automatic system on time, Press #54 your four digit user code followed by the two digit hour and two digit minute.

5 4 ☐☐☐☐ [Hour] [Minute]

Where the hour is a two digit entry 00-23 [Military time] Midnight is 00 Noon is 12 and 3pm is 15 (Add 12 to each hour after noon).

Minute is 00-59

Door Strike

Door Strike is a feature that allows you to use your user code to electronically unlock doors. It requires special locks and equipment.

6☐☐☐☐ [Door #]

Door #	Description	Door #	Description
1	_____	3	_____
2	_____	4	_____

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Keypad Indicators

STAY LIGHT - Indicates the system is on with interior points/zones excluded so you cam move freely inside the premises.

INSTANT LIGHT - Indicates that the exit/entry delay times have been eliminated any activation will create an instant alarm.

READY LIGHT - When lit, the system is ready to be turned on. When off, check zone status indicators to see which zone/zones is not ready.

ON/OFF (ARM/DISARM) LIGHT - When lit, the burglar portion of the system is on. When off, the burglar system is off. Blinking LED indicates communication failure. Check to see if your phones are working.

AC/LOW BATTERY LIGHT - When lit, your system is running on electricity (AC power). When off, the system is running on the standby battery. If off, check to see if the system is plugged in and if so, make sure you have not blown the fuse or circuit breaker.

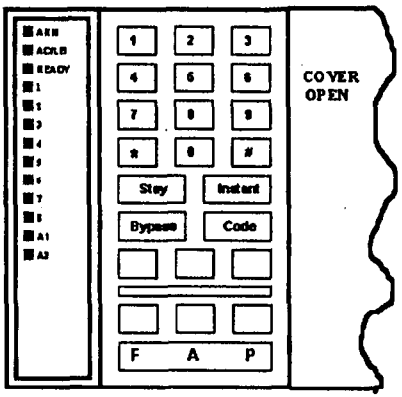
ZONE STATUS INDICATORS - Zone lights display status as follows:

Fast Blink	Alarm	**Slow Blink/Low Intensity**	Bypass
Slow Pulse	Trouble	**Solid On**	Not Ready

READY LED - A FLASHING ready LED indicates that the system is in the Installer programming mode. The fire and burglary zones are disabled while in this mode. Contact your installation company.

FUNCTION BUTTONS - Stay, Instant, Bypass, Code are all used for system input.

XK-108 (Cannot be used with wireless system



XK-108 KEYPAD

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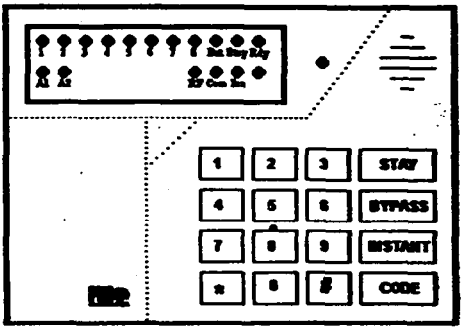
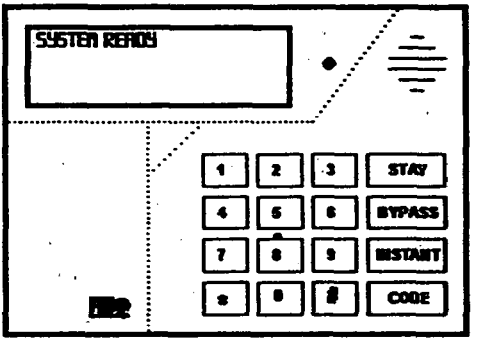
XK-708



XK-708 KEYPAD

XK-7LC uses English language display instead of status and zone lights described on previous page



XK-7LC KEYPAD

SOUNDER - The sounder in the keypad beeps whenever the keypad keys are pressed. The sounder also beeps when the system is on and you open a delay door as a warning to remind you to turn the system off. The sounder will produce fast beeps when a message is received by the central station. It is important to be careful when turning the system on, because if the system is not ready and the user code is entered the keypad will beep 4 times showing that there is a problem and that the system has not accepted your request.

FIRE PROTECTION - Fire protection is always active and fire conditions are given a priority.

FIRE ALARM - Audible and Visual Indicators. On LED keypads the programmed fire zone LED and the ARM LED will blink fast to indicate a fire alarm. The sounder in the keypad will pulse on and off following the bell or siren output.

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System Operation
Wireless Keypad

The communication indicator on the * key will light to show that the key press has been transmitted. If the light does not light, the key press will not be recognized by the system.

TURN THE SYSTEM ON

You can turn the Burglar portion of your security system on and off. Before you turn the system on it must be ready. If you have a protected door open, or someone is moving by a motion detector the system will not show ready

TURN THE SYSTEM ON AND LEAVE

Enter your four digit user code ☐☐☐☐

TURN THE SYSTEM ON AND STAY INSIDE

7 ☐☐☐☐

TURN THE SYSTEM ON - STAY INSIDE WITH NO DELAY TIMES

7 2 ☐☐☐☐

TURN THE SYSTEM ON - ALL SENSORS WILL ACTIVATE IMMEDIATELY

7 3 ☐☐☐☐

QUICK ON

1

QUICK FORCED ON

2

TURN SYSTEM OFF

Enter your 4 digit user code ☐☐☐☐

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BYPASSING (same area keypad)

BYPASS BY ZONE

Enter # 4 followed by 4 digit user code followed by zone #

4 ☐☐☐☐ ZONE # (1-8)

BYPASS BY POINT

Enter # 4 followed by 4 digit user code followed by 2 digit point #

4 ☐☐☐☐ POINT # (01-24)

QUICK BYPASSING (same area keypad)

BYPASS BY ZONE

Enter # 4 followed by zone #

4 ZONE # (1-8)

BYPASS BY POINT

Enter # 4 followed by 2 digit point #

4 POINT # (01-24)

SEND HELP CONDITIONS (same area keypad)

KEYPAD PANIC

Press # and * together

KEYPAD FIRE

Press in sequence

8 1

KEYPAD AUXILIARY

Press in sequence

8 2

NOT AVAILABLE ON WIRELESS KEYPAD

User code programming

Using * to change areas

Any Quick Commands not Listed in this section

Installer Programming modes

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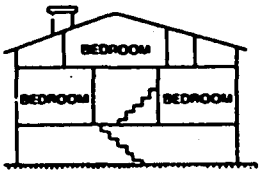
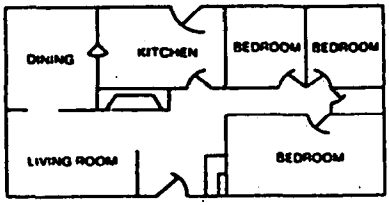
Installation Layout

Early warning fire detection is best achieved by the installation of fire detection equipment in the location as follows:

Typical Smoke Detector Layout

(Proposed)





In homes with more than one sleeping area a smoke detector should be provided to protect each area. Smoke detectors shall be located between the sleeping area and the rest of the house. NOTE: Refer to N.F.P.A. 874 Appendix B1.1 through B-10.

In the diagram a + represents a smoke detector.

Preparation of an evacuation plan is of prime importance in fire prevention. Establish a household or business emergency evacuation plan to be followed in the event of a fire.

1. Evaluate possible escape routes from your home or business.
2. Select 2 escape routes from each room.
3. Rooms on the second floor should have a rope ladder (make sure it reaches the ground) or fire escape.
4. Draw a rough sketch of your escape plan so everyone is familiar with it.
5. Practice your escape plan to make sure everyone knows what to do.
6. Establish a meeting place outside where everyone will meet.
7. Advise the local fire authority that you have installed a fire alarm system.
8. When the fire alarm signals, LEAVE IMMEDIATELY. Do not stop for belongings.
9. If a fire occurs, test the door. If hot, use your alternate route. If the door is cool, brace your shoulder against it and open it cautiously. Shut the door to help prevent the fire and smoke from spreading. Crawl through smoke holding your breath.
10. Contact the Fire Department from a neighboring house or business.
11. Everyone, including neighbors, should be familiar with your Fire and Burglary audible alarm sounders.

Fire Alarm Sound is:_____

Burglar Alarm Sound is:_____

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LIMITATIONS OF THIS ALARM SYSTEM

While this system is an advanced design security system, it does not offer guaranteed protection against burglary, fire, or other emergency. Any alarm system, whether commercial or residential, is subject to compromise or failure to warn for a variety of reasons. For example:

✇ Intruders may gain access through unprotected openings or have the technical sophistication to bypass an alarm sensor or disconnect an alarm warning device.

✇ Intrusion detectors (e.g. passive infrared detectors), smoke detectors, and many other sensing devices will not work without batteries, or if the batteries are not put in properly. Devices powered solely by AC will not work if their AC power supply is cut off for any reason, however briefly.

✇ Signals sent by wireless transmitters may be blocked or reflected by metal before they reach the alarm receiver. Even if the signal path has been recently checked during a weekly test, blockage can occur if a metal object is moved into the path.

✇ A user may not be able to reach a panic or emergency button quickly enough.

✇ While smoke detectors have played a key role in reducing residential fire deaths in the United States, they may not activate or provide early warning for a variety of reasons in as many as 35% of all fires according to data published by the Federal Emergency Management Agency. Some of the reasons smoke detectors used in conjunction with the System may not work are as follows: Smoke detectors may not sense fires that start where smoke cannot reach the detectors, such as in chimneys, in walls, or roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level of a residence or building. A second floor detector, for example, may not sense a first floor or basement fire. Moreover, smoke detectors have sensing limitations. No smoke detector can sense every kind of fire every time. In general, detectors may not always warn about fires caused by carelessness and safety hazards like smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches, or arson. Depending on the nature of the fire and/or the location of the smoke detectors, the detector, even if it operates as anticipated, may not provide sufficient warning to allow all occupants to escape in time to prevent injury or death.

✇ Passive Infrared Motion Detectors can only detect Intrusion within the designed ranges as diagrammed in their Installation Manual. Passive Infrared Detectors do not provide volumetric area protection. They do create multiple beams of protection, and Intrusion can only be detected in unobstructed areas covered by the beams. They cannot detect motion or intrusion that takes place behind walls, ceilings, floors, closed doors, glass partitions, glass doors or windows. Mechanical tampering, masking, painting or spraying, of any material on the mirrors, windows or any part of the optical system can reduce their detection ability. Passive Infrared Detectors sense changes in temperature; however, as the ambient temperature of the protected area approaches the temperature range of 90 degrees to 150 degrees Fahrenheit, the detection performance can decrease.

✇ Alarm warning devices such as sirens, bells or horns may not alert people or wake up sleepers who are located on the other side of closed or partly open doors. If warning devices sound on a different level of the residence from the bedrooms, then they are less likely to waken or alert people inside the bedrooms. Even persons who are awake may not hear the warning if the alarm is muffled by noise from a stereo, radio, air conditioner, other appliances, or by passing traffic. Finally, alarm warning devices, however loud, may not warn hearing-impaired people or waken deep sleepers.

✇ Telephone lines needed to transmit alarm signals from a premises to a central monitoring station may be out of service or temporarily out of service. Telephone lines are also subject to compromise by sophisticated intruders.

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- However, even if the system responds to the emergency as intended occupants may have insufficient time to protect themselves from the emergency situation. In the case of a monitored alarm system, authorities may not respond appropriately.

- This equipment, like other electrical devices, is subject to component failure. Even though this equipment is designed to last as long as 10 years, the electronic components could fail at any time.

The most common cause of an alarm system not functioning when an intrusion or fire occurs in inadequate maintenance. This alarm system should be tested weekly to make sure all sensors are working properly.

Installing an alarm system may make one eligible for lower insurance rates, but an alarm system is not a substitute for insurance. Homeowners, property owners and renters should continue to act prudently in protecting themselves and continue to insure their lives and property.

We continue to develop new and improved protection devices. Users of alarm systems owe it to themselves and their loved ones to learn about these developments.

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Glossary

AC INDICATOR: Small green light between the center buttons on the keypad. When lit, the system is running on electricity; when not lit, the system is running on the backup battery.

ALARM: Sound from keypad or other horn/siren indicates a burglar alarm, fire alarm or other condition you should be alerted to.

ARMED: See ON/OFF

AWAY: A system setting that protects the premises while it is unoccupied. All burglary sensors are active.

BURGLARY/FIRE: The two major functions of a Security System. Fire protection is always on and cannot be turned off. The Burglary sensors protect against unauthorized entry into your premises. The Burglary protection can be turned on and off and programmed for special levels of access and notification.

BYPASS FEATURE: The Bypass Feature allows you to exclude a selected zone/point or zones/points from the burglar alarm protection.

BYPASS BUTTON: A button on the keypad used to activate the Bypass Feature.

CENTRAL STATION: Signal Monitoring Center contacted by your Security System over the telephone and/or other communication channels when alarms are activated if your system is programmed to communicate alarms off site. The Central Station will follow their procedures and your instructions for contacting the proper authorities when a signal is received.

CHIME FEATURE: An optional feature that causes the keypad to chime for one second when selected doors are opened when the burglary protection is off or disarmed. Once programmed by your installer you can turn chime on and off with #56.

DISARMED: See ON/OFF.

DURESS: Duress is a system feature the you **may** have programmed into your system. If someone should force you to turn your system off, you would use the special Duress user code and the system would turn off and it would also send a silent duress emergency to the Central Station so they could respond appropriately.

ENTRY DELAY: The period of time allowed between opening a designated entry/exit door and turning off the alarm system before the system will register an alarm condition. This is determined at the time of installation. Your system supports two entry times allowing you to have a different length of time for different doors.

EXIT DELAY: The period of time allowed between turning the system on and leaving through a designated exit/entry door. This is determined at the time of installation.

HYBRID CONTROL: An Alarm control that supports more than one alarm sensor connection technology. In the case of your system those technologies are standard hardwire connections and Radio Frequency "Wireless" transmissions.

INTERIOR ZONE: An interior zone is a group of points that protect the interior of your premises. You may want to turn the perimeter portion of your system on while leaving the interior zones off allowing you to move freely inside, opening interior doors and passing by motion detectors without causing an alarm.

KEYPAD: A Keypad is your link into your system. It displays alarm and trouble messages, shows faulted zones and allows you to turn the system on/off by using the buttons. Your system will have one or more keypads.

MONITORING STATION: Signal Monitoring Center contacted by your Security System over the telephone and/or other communication channels when alarms are activated if your system is programmed to communicate alarms off site. The Monitoring Stration, sometimes called a Central Station, will follow their procedures and your instructions for contacting the proper authorities when a signal is received.

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ON/OFF: These terms refer to the burglary portion of your security system. There are several levels of operation which allow you to protect part of your premises while you remain inside. Fire sensors and other emergency and environmental conditions are always active and ready and are not affected in any way by turning the burglary portion of your Security System on or off. Armed, a term that is sometimes used means system on and Disarmed means system off. See ON-INSTANT, ON-STAY and STAY.

ON/OFF INDICATOR: Red light in the upper portion of the keypad labeled Armed. When lit, some part of the burglar alarm system is on; when not lit, the burglary portion of the system is off.

ON-STAY: A system setting that turns on the perimeter protection of the building but allows movement throughout the inside.

PANIC BUTTON: A push button which allows you to signal the Central Station that you need immediate assistance. Your system has programmable Keypad Send Help Alerts which can also serve as Panic buttons.

POINT: A point of protection = an alarm sensing device.

RECEIVER: Radio Frequency Signal Receiver that translates the RF signals from your wireless alarm sensors into information that your HC-42 Alarm Control understands.

PERIMETER ZONE: A perimeter zone is a group of points that protect the exterior of your premises. Your outside doors and windows would be programmed as a perimeter zone.

SENSOR: The actual alarm sensor, detector or device installed to detect an intrusion, fire, or environmental problem. Examples include: door contacts, window contacts, motion sensors, glass break sensors, smoke detectors, rate of rise heat detectors, temperature sensors, flood/water sensors, and carbon monoxide gas detectors.

SILENT CONDITION: Most types of alarms and troubles alert you with the keypad sounder and the sirens, horns, or speakers located in your premises. The intent is to advise you of the alarm or trouble and allow you to respond promptly. The audible sounds also let an intruder know that they have been detected and will hopefully scare them away. In some circumstances, an audible alarm might put your life in danger and so those alarms are programmed as silent conditions. For an example see DURESS.

SYSTEM: Your Security System is composed of three main parts: 1) the Control Panel which functions as the system brain and the link to the Monitoring Agency (Central Station), 2) the Keypad(s) which provide you with system status and allow you input commands, 3) Security Sensors such as door and window contacts, motion sensors, smoke detectors and other sensors as required to detect intrusion, fire and other conditions as needed for your premises.

TRANSMITTER: A Radio Frequency transmitter that sends radio signals from your wireless alarm sensing devices to your wireless receiver.

USER CODE: A user code is a 4 digit code which is required to operate the system. The system supports up to 6 separate user codes. The system supports one master user who can add/delete other user codes. Two of the user codes may be dedicated to special functions as defined by your alarm company at the time of installation. (See the User Code List near the front of this manual)

WIRELESS: Instead of using a wire to connect an alarm sensing device your system is capable of supporting wireless connections using a Radio Frequency Receiver and Transmitters.

ZONE: A zone is a collection of sensors with common characteristics grouped together for your operating convenience. The system will support 8 zones or groupings.

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Federal Communications Commission (FCC) Statement

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is. in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a class B computing device in accordance with the specifications in Subpart J Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on, the user is encouraged to try and correct the interference by one or more of the following measures:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Re-orient the receiving antenna until interference is reduced or eliminated.
- Move the receiver away from any wire runs to the control/communicator.
- Plug the control/communicator into a different outlet so that it and the receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

The user or installer may find the following booklet prepared by the Federal Communications Commission helpful: "Interference Handbook".

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Stock No. 004-000-00450-7.

The user shall not make any changes or modifications to the equipment unless authorized by the installation instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

TELEPHONE OPERATIONAL PROBLEMS

In the event of telephone operational problems, disconnect the control by removing the plug from the RJ31X wall jack. We recommend that your certified installer demonstrate disconnecting the phones on installation of the system. Do not disconnect the phone connection inside the control/communicator. Doing so will result in the loss of your phone lines. If the regular phone works correctly after the control/communicator has been disconnected from the phone lines, the control/communicator has a problem and should be returned for repair. If upon disconnection of the control/communicator, there is still a problem on the line, notify the telephone company that they have a problem and request prompt repair service. The user may not under any circumstances (in or out of warranty) attempt any service or repairs to the system. It must be returned to the factory or an authorized service agency for all repairs. SYSTEM TESTING

This control unit was manufactured under rigid quality standards and complies with all UL requirements for its intended use. Maintenance is best performed by your installing company with trained service personnel.

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Limited Warranty

Fire Burglary Instruments, Inc.,. a subsidiary of Pitway Corporation, and Pitway Corporation, its divisions, subsidiaries and affiliates ("Seller"), 149 Eileen Way, Syosset, New York 11791, warrants its security equipment (the "product") to be free from defects in material and workmanship for five years from date of original purchase, under normal use and service. Seller's obligation is limited to repairing or replacing, at its option, free of charge for parts, labor, or transportation, any product proved to be defective in materials or workmanship under normal use and service. Seller shall have no obligation under this warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than the Seller. In case of defect, contact the security professional who installed and maintains your security equipment or the Seller for product repair.

This five year Limited Warranty is in lieu of all other expressed warranties, obligations or liabilities. THERE ARE NO EXPRESS WARRANTIES, WHICH EXTEND BEYOND THE FACE HEREOF. ANY IMPLIED WARRANTIES, OBLIGATIONS OR LIABILITIES MADE BY SELLER IN CONNECTION WITH THIS PRODUCT, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, ARE LIMITED IN DURATION TO A PERIOD OF FIVE YEARS FROM THE DATE OF ORIGINAL PURCHASE, ANY ACTION FOR BREACH OF ANY WARRANTY, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY, MUST BE BROUGHT WITHIN 60 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL SELLER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, OR UPON ANY OTHER BASIS OF LIABILITY WHATSOEVER, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT. Some states do not allow limitation on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Seller does not represent that the product may not be compromised or circumvented; that the product will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the product will in all cases provide adequate warning or protection. Buyer understands that a properly installed and maintained alarm may only reduce the risk of a burglary, robbery, fire or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. HOWEVER, IF SELLER IS HELD LIABLE, WHETHER DIRECTLY OR INDIRECTLY, FOR ANY LOSS OR DAMAGE ARISING UNDER THIS LIMITED WARRANTY OR OTHERWISE, REGARDLESS OF CAUSE OR ORIGIN, SELLER'S MAXIMUM LIABILITY SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT, WHILE SHALL BE THE COMPLETE AND EXCLUSIVE REMEDY AGAINST SELLER. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. No increase of alteration, written or verbal, to this warranty is authorized.

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System Test

It is recommended that you test your system once a week using the following procedure:

NOTE: If your system is monitored, contact your Central Station before you perform this test.

1. Turn your Security System on.

2. Wait until your exit time is over and them activate the system by opening a protected zone. (For example: a window or door).

3. Confirm that the alarm sounding device (bell or siren) sounds. If your system is connected to a central station the keypad will sound the ringback tone to confirm that the signal was received.

4. Turn the Security System off.

5. Call the Central Station to tell them you are done testing.

BATTERY TEST

It is recommended that you test your Battery once a month. In order to test your backup/standby battery, the following procedure should be followed:

1. Unplug the transformer from the AC outlet by removing the restraining screw which secures the transformer to the wall. (Note: the screw is not present on the models sold in Canada.)

2. Observe that the AC indicator light on the keypad goes off.

3. Activate your alarm by performing the above SYSTEM TEST. Remember to contact your Central Station if your system is monitored.

4. Plug the transformer into the AC outlet and secure with the restraining screw. (Note: the screw is not present on the models sold in Canada.)

The National Fire Protective Association publishes a standard for fire warning equipment (NFPA publication #74). Further information can be obtained by contacting: NFPA Public Affairs Dept., Batterymarch Park, Quincy, MA 02269.

If you have any further questions about the operation of your system, please contact your alarm company.

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